TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION Effective November 1, 2011
DR-506

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **February 2015**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

Knotty Alder Wood Inswing Doors with Three Quarter Lite, Non-impact Resistant, manufactured by:

Hoelscher Weatherstrip Manufacturing Co., Inc.
10111 Houston Oaks Drive
Houston, TX 77064
(713) 869-6466

will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

General Description: The wood doors evaluated in this report are non-impact resistant. This product evaluation report includes the following:

Product Description:

System	Active Panel Sizes	Door Panel Glass Size
1	36" x 96"	20 5/8" x 66 1/16"
2	36" x 96"	20 5/8" x 66 1/16"
3	42" x 96"	26 5/8" x 66 1/8"

Glazing Description:

System	Glass Construction [1]	Glazing Method [2]
1-3	IG-1	GM-1

Note: [1] See the "Glass Construction Key" for the glass construction.
[2] See the "Glazing Method Key" for the glazing method description.

Glass Construction Key:

IG-1: The doors have insulating glass units. The insulating glass units are comprised of two (2) lites of 1/8" thick tempered glass separated by an aluminum reinforced butyl spacer system.

Glazing Method Key:
GM-1: The glazing is interior glazed and set against backbedding compound at the exterior.

Frame Construction: The head is constructed of finger jointed pine measuring 4 9/16" in depth. The jambs are constructed of finger jointed pine and composite material measuring 4 9/16" in depth.

Panel Construction: The door panels are 1 3/4" thick and consist of 3/16" thick knotty alder veneer with a solid core wood door.

Reinforcement: None.

Hardware:
- Hinges: SFS Hardware 158 barrel hinges

Deadbolt and lockset:
One of the following may be used on the 36" x 96" doors:
- Schlage JH58;
- Kwikset 800CE;
- Kwikset 687DA; or
- Kwikset 687DA with steel security plate on the backside of lock jamb.

The following may be used on the 42" x 96" doors:
- Kwikset 800CE with steel security plate on the backside of lock jamb.

Product Identification: A manufacturer's identification label will be affixed to the door assembly. The label includes the manufacturer's name and performance characteristics to indicate compliance with ASTM E330.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	36	96	+40.6, -53.2
2	36	96	+54.8, -71.3[1]
3	42	96	+54.8, -71.3[2]

Notes:
[1] Requires use of Kwikset 687DA with steel security plate on the backside of lock jamb to achieve the allowable design pressure rating.
[2] Requires use of Kwikset 800CE with steel security plate on the backside of lock jamb to achieve the allowable design pressure rating.

Impact Resistance: These door assemblies do not satisfy the Texas Department of Insurance's criteria for protection from windborne debris. These door assemblies will need to be protected with an impact protective system when installed in areas where windborne debris protection is required.

Acceptance of Smaller Assemblies: Door assemblies with dimensions equal to or smaller than those specified above are acceptable within the limitations specified in this report.

INSTALLATION INSTRUCTIONS

General: The door assemblies shall be installed according to the manufacturer's installation instructions and this product evaluation. The wood framing members shall be minimum Southern Pine lumber (G≥0.55).

All Systems (Single Door):

Hinge Jamb (Behind Weatherstrip): The hinge jamb is secured with No. 8 x 2½" bugle head screws located 3 inches from the outside corners the rest located at each hinge and the midpoints between the hinges.

Lock Jamb (Behind Weatherstrip): The lock jamb is secured with No. 8 x 2½" bugle head screws located 3" from the outside corners the rest spaced at 17 inches on center thereafter.

Head: The hinge jamb is secured with No. 8 x 2½" bugle head screws located 3 inches from the outside corners and one at the midpoint.

Threshold: The threshold is set into the opening after the frame and secured using No. 8 x 2½" bugle head screws located at 3 inches from the outside corners and one at the midpoint.

Hinges: Each hinge is secured to the door leaf with four (4) No. 10 x 1" bugle head screws. Each hinge is attached to the jamb with three (3) No. 10 x 1" bugle head screws and one (1) No. 10 x 2½" bugle head screws. The 2½" screw is located in the second hole from the top of each hinge.

Strike Plates:
Lockset: (2) No. 8 x ⅝" bugle head screws.
Deadbolt: (2) No. 10 x 3" bugle head screws.

Security Plate: The steel security plates are secured to the backside of the lock jamb in line with the dead bolt. The plate is fastened with three (3) No. 8 x ⅝" pan head screws, two towards the interior and one towards the exterior.

If the wall framing is concrete or concrete block, then minimum 3/16" diameter concrete anchors shall be used. The concrete anchors shall embed a minimum of 1¼ inches into the concrete or concrete block.

Note: The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC) and the International Building Code (IBC), and the Texas Revisions.